



Abstract

The heterologous expression of the oleandomycin polyketide synthase (OlePKS) in *Streptomyces lividans*, produces 8,8a-deoxyoleandolide, an aglycone precursor of oleandomycin. The co-expression with deoxyerythronolide B synthase (DEBS) in *S. lividans* of the P450 monooxygenase OleP produces 8,8a-dihydroxy-6-deoxyerythonolide B and other derivatives that are precursors to important macrolide antibiotics.